

Product designation	Rotary cam switches		
Product type designation	7GN12		
General characteristics			
Switching diagram	66 - Voltmeter switch for phase-neutral and phase-phase voltages		
N° of elements	3		
Mounting form	O48 - Modular service cover for 35mm din rail mounting with black handle		
Contact characteristics			
Rated insulation voltage Ui	IEC/EN	V	690
	UL/CSA	V	600
Rated impulse withstand voltage Uimp		kV	6
Conventional free air thermal current Ith	IEC/EN	A	16
	UL/CSA	A	15
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)	10kA	A	16
	15kA	A	10
	25kA	A	10
Rated short time current Icw	1s	kA	200
Conductivity	10/5 mA/V		
Operational current Ie IEC/EN			
AC1/AC21A		A	16
AC15	110V	A	10
	220/230V	A	8
	380/400V	A	4
	660/690V	A	1.5
Rated operational power in AC			
Three-phase AC-3	220/230V	kW	2.5
	380/440V	kW	4
	500/690V	kW	5.5
Single-phase AC-3	110V	kW	0.8
	220/230V	kW	1.5
	380/440V	kW	2.2
Three-phase AC23A	220/230V	kW	3
	380/440V	kW	5.5
	500/690V	kW	7.5
Single-phase AC23A			

ROTARY CAM SWITCH 7GN SERIES, VOLTMETER SWITCH FOR PHASE-NEUTRAL AND
PHASE-PHASE VOLTAGES 16A, MODULAR SERVICE COVER FOR 35MM DIN RAIL
MOUNTING WITH BLACK HANDLE, FRONT PLATE 45X54MM

		110V	kW	0.8
		220/230V	kW	1.7
		380/440V	kW	3
Rated operational current in DC				
DC21A		48V	A	12
		60V	A	12
		110V	A	4
		220V	A	0.6
		440V	A	0.25
DC23A (poles in series)		24V	A	10 (1)
		48V	A	10 (2)
		60V	A	10 (3)
		110V	A	5 (3)
		220V	A	5 (4)
DC13		24V	A	12
		48V	A	10
		60V	A	8
		110V	A	1
		220V	A	0.4
		440V	A	0.15
Power dissipation			W	0.8
Mechanical features				
Terminals screw				M3
Tightening torque for terminals max			Nm	0.5
Conductor size				
AWG - Rigid cable		min	AWG	20
		Max	AWG	12
AWG - Flexible cable		min	AWG	20
		Max	AWG	14
Conductor size (IEC) - Flexible cable		min	mm ²	0.5
		Max	mm ²	2.5
Conductor size (IEC) - Rigid cable		min	mm ²	0.5
		Max	mm ²	2.5
Mechanical life			cycles	3x10 ⁶
UL technical data				
Motor power for direct-on-line control				
for three-phase motor		120V	HP	1.5
		240V	HP	3
for single-phase motor		120V	HP	0.5
		240V	HP	1
Ambient conditions				
Temperature				
Operating temperature		min	°C	-25
		max	°C	+55

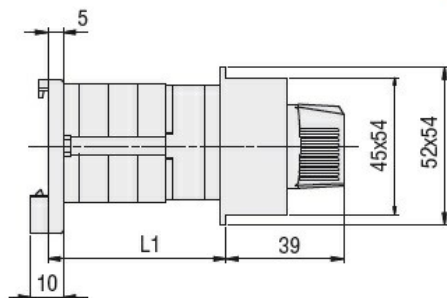
Storage temperature

min	°C	-40
max	°C	+70

Resistance & Protection

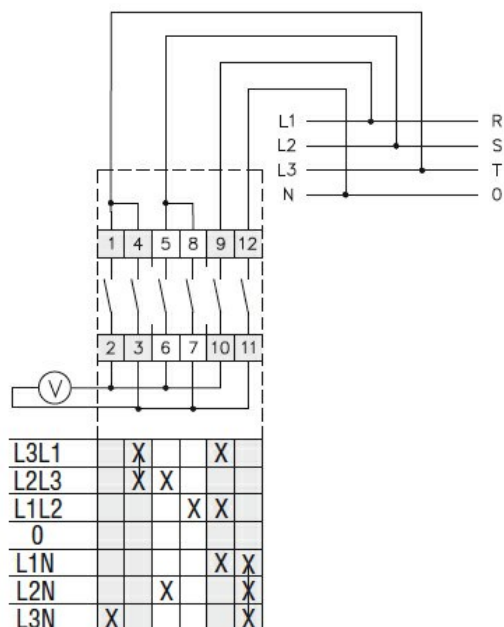
Frontal IP degree	IP40
Terminals IP degree	IP00

Dimensions



Series	L1		
	1	2	3
7GN12	38.1	47.8	57.5
7GN20	38.1	47.8	57.5
7GN25	42.5	56.1	69.7

Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 14
IEC/EN/BS 60947-1
IEC/EN/BS 60947-3
IEC/EN/BS 60947-5-1
UL60947-4-1

Certificates

cCSAus

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EAC

UL

ETIM classification

ETIM 8.0

EC001029 -
Selector switch,
complete